

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L22	132	(ITOH-YUJIS\$).in. Or "(NISHIOKA-AYAKO\$).in. Or (UOTANI-NOBUO\$).in.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/06 16:40
S1	8036	(Polish\$4 Same (Metal Or Metal film Or Film)) And \$12Phosphate	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/03 20:15
S2	1519	S1 And(Metal Same Etch\$4)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/03 20:18
S3	1519	S2 and Etch\$4	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/03 20:19
S4	1622	(Polish\$4 Or Polish\$4 Composition) and (Phosphate ester Or polyoxyethylene alkyl ether phosphate Or polyoxyethylene aryl ether phosphate Or octyl phosphate Or decyl phosphate Or lauryl phosphate)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/03 21:07
S5	416	(Polish\$4 Or Polish\$4 Composition) and (myristyl phosphate Or cetyl phosphate Or stearyl phosphate Or secondary alkyl phosphate Or 2- ethylhexyl phosphate Or oleyl phosphate Or monostearyl Or glyceryl ether phosphate Or monocetyl glyceryl ether phosphate Or monooleyl glyceryl ether phosphate Or isostearyl glyceryl ether phosphate)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/03 21:08
S6	5680	(Polish\$4 Or Polish\$4 Composition) and (polyoxyethylene octyl ether phosphate Or polyoxyethylene decyl ether phosphate Or polyoxyethylene lauryl phosphate Or polyoxyethylene Or myristyl ether phosphate Or polyoxyethylene cetyl ether phosphate)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/03 21:09

## EAST Search History

S7	12	(Polish\$4 Or Polish\$4 Composition) and (polyoxyethylene stearyl ether phosphate Or polyoxyethylene \$3ethylhexyl ether phosphate Or polyoxyethylene \$3oleyl ether phosphate Or polyoxyethylene nonylphenyl ether phosphate)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/03 21:13
S8	5940	S5 Or S6 Or S7	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/05 18:41
S9	1114	S8 and Etch\$4	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/03 21:16
S10	4863	S8 and (sulfuric acid Or phosphoric acid Or phosphonic acid Or nitric acid Or carboxylic acid Or formic acid Or acetic acid Or propionic acid Or butyric acid Or valeric acid Or 2-methylbutyric acid Or n-hexanoic acid Or 3,3- dimethylbutyric acid Or 2-ethylbutyric acid Or 4-methylpentanoic acid Or n-heptanoic acid Or 2-methylhexanoic acid or n-octanoic acid or 2-ethylhexanoic acid Or benzoic acid Or glycolic acid Or hydroxyacetic acid Or salicylic acid Or glyceric acid Or oxalic acid Or malonic acid Or succinic acid Or glutaric acid Or adipic acid Or pimelic acid Or maleic acid Or phthalic acid or malic acid or tartaric acid or citric acid or lactic acid or nicotic acid Or quinaldinic acid Or anthranilic acid)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/03 21:22

## EAST Search History

S11	4384	S10 And (Ammonia Or sodium hydroxide Or potassium hydroxide Or potassium carbonate Or potassium hydrogencarbonate Or ammonium hydrogencarbonate Or alkylmonoamine Or methylamine Or ethylamine Or propylamine Or isopropylamine Or butylamine Or isobutylamine Or t-butylamine Or amylamine Or allylamine Or 2-ethylhexylamine Or cyclohexylamine Or benzylamine Or furfurylamine Or o-aminophenol Or ethanolamine Or 3-amino-1-propanol Or 2-amino-1-propanol Or diamine Or ethylenediamine Or diethylenetriamine, triethylenetetramine Or tetraethylenepentamine Or pentaethylenhexamine Or o-phenylenediamine Or trimethylenediamine Or 1, 2-diaminopropane Or 2, 2-diamino-di-n-propylamine Or 2-methyl-2-(2-benzylthioethyl)ethylenediamine Or 1,5-diamino-3-pentanol Or 1, 3-diamino-2-propanol Or xylenediamine Or bisaminopropylpolyalkylene ether Or polyallylamine Or polyethyleneimine)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/03 21:35
S12	3072	S11 And (Oxygen Or hydrogen peroxide Or ozone Or alkyl peroxide Or \$11peroxide Or peracid Or permanganate salt\$1 Or "S10" permanganate Or persulfate salt Or \$10persulfate Or polyoxo acid Or hypochlorite salt\$4 Or \$10hypochlorite Or periodate salt\$1 Or \$10periodate)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/03 21:40
S13	1335	S12 And (anionic surfactant\$1 Or cationic surfactant\$1 Or nonionic surfactant\$1 Or ampholytic surfactant\$1 )	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/04 15:06
S14	1036	S13 And (alkylaromatic-sulfonic acid or \$12sulfonate Or (Salt Near5 Sulfon\$5))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/03 21:44

## EAST Search History

S15	416	(Polish\$4 Or Polish\$4 Composition) and (myristyl phosphate Or cetyl phosphate Or stearyl phosphate Or secondary alkyl phosphate Or 2-ethylhexyl phosphate Or oleyl phosphate Or monostearyl Or glyceryl ether phosphate Or monocetyl glyceryl ether phosphate Or monooleyl glyceryl ether phosphate Or isostearyl glyceryl ether phosphate)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/04 15:13
S16	5682	(Polish\$4 Or Polish\$4 Composition) and (polyoxyethylene octyl ether phosphate Or polyoxyethylene decyl ether phosphate Or polyoxyethylene lauryl phosphate Or polyoxyethylene Or myristyl ether phosphate Or polyoxyethylene cetyl ether phosphate)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/04 15:13
S17	12	(Polish\$4 Or Polish\$4 Composition) and (polyoxyethylene stearyl ether phosphate Or polyoxyethylene \$3ethylhexyl ether phosphate Or polyoxyethylene \$3oleyl ether phosphate Or polyoxyethylene nonylphenyl ether phosphate)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/04 15:13
S18	5942	S15 Or S16 Or S17	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/04 15:13

## EAST Search History

S19	4865	S18 and (sulfuric acid Or phosphoric acid Or phosphonic acid Or nitric acid Or carboxylic acid Or formic acid Or acetic acid Or propionic acid Or butyric acid Or valeric acid Or 2-methylbutyric acid Or n-hexanoic acid Or 3,3- dimethylbutyric acid Or 2-ethylbutyric acid Or 4-methylpentanoic acid Or n-heptanoic acid Or 2-methylhexanoic acid or n-octanoic acid or 2-ethylhexanoic acid Or benzoic acid Or glycolic acid Or hydroxyacetic acid Or salicylic acid Or glyceric acid Or oxalic acid Or malonic acid Or succinic acid Or glutaric acid Or adipic acid Or pimelic acid Or maleic acid Or phthalic acid or malic acid or tartaric acid or citric acid or lactic acid or nicotic acid Or quinaldinic acid Or anthranilic acid)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/04 16:30
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## EAST Search History

S20	4386	S19 And (Ammonia Or sodium hydroxide Or potassium hydroxide Or potassium carbonate Or potassium hydrogencarbonate Or ammonium hydrogencarbonate Or alkylmonoamine Or methylamine Or ethylamine Or propylamine Or isopropylamine Or butylamine Or isobutylamine Or t-butylamine Or amylamine Or allylamine Or 2-ethylhexylamine Or cyclohexylamine Or benzylamine Or furfurylamine Or o-aminophenol Or ethanolamine Or 3-amino-1-propanol Or 2-amino-1-propanol Or diamine Or ethylenediamine Or diethylenetriamine, triethylenetetramine Or tetraethylenepentamine Or pentaethylenehexamine Or o-phenylenediamine Or trimethylenediamine Or 1, 2-diaminopropane Or 2, 2-diamino-di-n-propylamine Or 2-methyl-2-(2-benzylthioethyl)ethylenediamine Or 1,5-diamino-3-pentanol Or 1, 3-diamino-2-propanol Or xylenediamine Or bisaminopropylpolyalkylene ether Or polyallylamine Or polyethyleneimine)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/04 15:13
S21	3072	S20 And (Oxygen Or hydrogen peroxide Or ozone Or alkyl peroxide Or \$11peroxide Or peracid Or permanganate salt\$1 Or "S10" permanganate Or persulfate salt Or \$10persulfate Or polyoxo acid Or hypochlorite salt\$4 Or \$10hypochlorite Or periodate salt\$1 Or \$10periodate)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/04 15:13
S22	1335	S21 And (anionic surfactant\$1 Or cationic surfactant\$1 Or nonionic surfactant\$1 Or ampholytic surfactant\$1 )	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/04 15:13
S23	1036	S22 And (alkylaromatic-sulfonic acid or \$12sulfonate Or (Salt Near5 Sulfon\$5))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/04 15:13

## EAST Search History

S24	349	S23 And (azole Or benzimidazole-2-20 thiol Or 2-[2-(benzothiazolyl)]thiopropionic acid Or 2-[2-(benzothiazolyl)]thiobutyric acid Or 2- mercaptobenzothiazole Or 1,2,3-triazole Or 1,2,4-triazole Or 3-amino-1H-1,2,4-triazole Or benzotriazole or 1-hydroxybenzotriazole 1-dihydroxypropylbenzotriazole Or 2,3-dicarboxypropylbenzotriazole Or 4-hydroxybenzotriazole Or 4-carboxyl-1H-benzotriazole Or 4-methoxycarbonyl-1H-benzotriazole Or 4-butoxycarbonyl-1H-benzotriazole Or 4-octyloxycarbonyl-1H-benzotriazole Or 5-hexylbenzotriazole Or N-(1,2,3-benzotriazolyl-1-methyl)-N-(1,2,4-triazolyl-1-methyl)-2-ethylhexylamine Or tolyltriazole Or naphthotriazole Or benzimidazole Or tetrazole Or hydroxybenzotriazole Or carboxybenzotriazole)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/04 16:01
S25	291	S24 And (silica grain\$2 Or Silica Or cerium oxide grain\$2 Or cerium oxide Or aluminum oxide grain\$2 Or aluminum oxide Or aluminum hydroxide grain\$2 Or aluminum hydroxide Or titanium dioxide grain\$2 Or titanium dioxide Or organic abrasive)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/04 16:12

## EAST Search History

S26	201	S25 And (glycine Or alanine Or 13-alanine Or 2-aminobutyric acid Or norvaline Or valine Or leucine Or norleucine Or isoleucine Or allo-isoleucine Or phenylalanine Or proline Or sarcosine Or ornithine Or lysine Or taurine Or serine Or threonine Or allo-threonine Or homoserine Or tyrosine Or 3, 5-diiodo-tyrosine or 13-(3,4-dihydroxyphenyl)-alanine Or thyroxine Or 4-hydroxy-proline Or cysteine Or methionine Or ethionine Or lanthionine Or cystathionine Or cystine Or cysteic acid Or aspartic acid Or glutamic acid Or S-(carboxymethyl)-cysteine Or 4-aminobutyric acid Or asparagine Or glutamine Or azaserine Or arginine Or canavanine Or citrulline Or 5-hydroxy-lysine Or creatine Or kynurenine Or histidine Or 1-methyl-histidine Or 3-methyl-histidine Or ergothioneine Or tryptophan)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/04 16:19
S27	194	S26 and (Fatty Acid Or butyric acid Or valeric acid Or 2-methylbutyric acid Or n-hexanoic acid Or 3,3-dimethylbutyric acid Or 2-ethylbutyric acid Or 4-methylpentanoic acid Or n-heptanoic acid Or 2-methylhexanoic acid or n-octanoic acid or 2-ethylhexanoic acid Or benzoic acid Or glycolic acid Or hydroxyacetic acid Or salicylic acid Or glyceric acid Or malonic acid Or succinic acid Or glutaric acid Or adipic acid Or pimelic acid Or maleic acid Or phthalic acid or malic acid or tartaric acid or citric acid or lactic acid or nicotic acid Or quinaldinic acid Or anthranilic acid)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/04 16:36
S28	184	S27 And pH	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/04 16:42
S30	145	S28 And (Cu Or Copper)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/04 16:48



## EAST Search History

S31	184	S28 And (Metal surface Or Copper Or surface)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/04 17:03
S32	13	S31 And Plan\$5 surface	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/04 17:03
S33	0	S31 And (phosphate Near7 Ester)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/04 18:28
S34	75	S31 And (phosphate Near7 Ester)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/04 18:30
S35	48	S31 And (phosphate Near4 Ester)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/04 18:30
S36	2	"4877411".pn.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/04 21:08
S37	1	"2007169284"	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/04 21:10
S38	0	"2007169284.pn"	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/04 21:10
S39	416	(Polish\$4 Or Polish\$4 Composition) and (myristyl phosphate Or cetyl phosphate Or stearyl phosphate Or secondary alkyl phosphate Or 2-ethylhexyl phosphate Or oleyl phosphate Or monostearyl Or glyceryl ether phosphate Or monocetyl glyceryl ether phosphate Or monooleyl glyceryl ether phosphate Or isostearyl glyceryl ether phosphate)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/05 20:11

## EAST Search History

S40	5682	(Polish\$4 Or Polish\$4 Composition) and (polyoxyethylene octyl ether phosphate Or polyoxyethylene decyl ether phosphate Or polyoxyethylene lauryl phosphate Or polyoxyethylene Or myristyl ether phosphate Or polyoxyethylene cetyl ether phosphate)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/05 18:41
S41	12	(Polish\$4 Or Polish\$4 Composition) and (polyoxyethylene stearyl ether phosphate Or polyoxyethylene \$3ethylhexyl ether phosphate Or polyoxyethylene \$3oleyl ether phosphate Or polyoxyethylene nonylphenyl ether phosphate)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/05 18:41
S42	5942	S39 Or S40 Or S41	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/05 18:42
S43	2	S42 And (azole Near5 Polymer)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/05 18:43
S44	12	S42 And (azole Same Polymer)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/05 18:43
S45	754	S42 And (Layer Same (Tatalum Or Tantalum Alloy Or Tantalum nitride Or Titanium Or Titanum Alloy))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/05 19:47
S46	2	S45 And (Metal film same barrier Layer Same wiring layer)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/05 19:45
S47	5	S45 And Metal film And barrier Layer And wiring layer	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/05 19:46
S48	53	S45 And Kit	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/05 19:47

## EAST Search History

S49	5	S48 And (Transport\$4 Same Storage)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/05 19:50
S50	292	S39 and Fatty acid	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	ADJ	ON	2007/12/05 20:11